

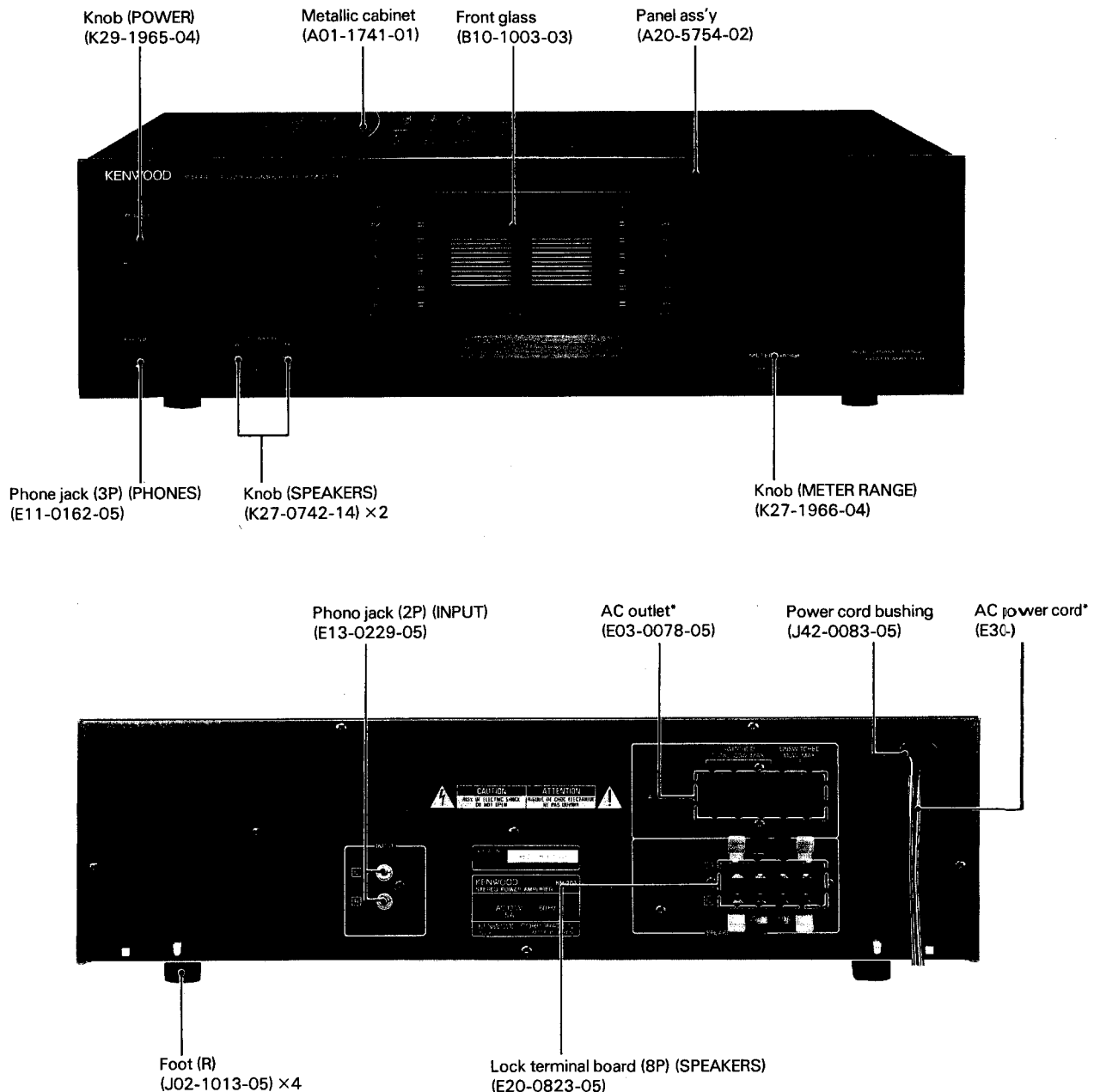
STEREO POWER AMPLIFIER

KM-208

SERVICE MANUAL

KENWOOD

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B51-3863-00(B)1755

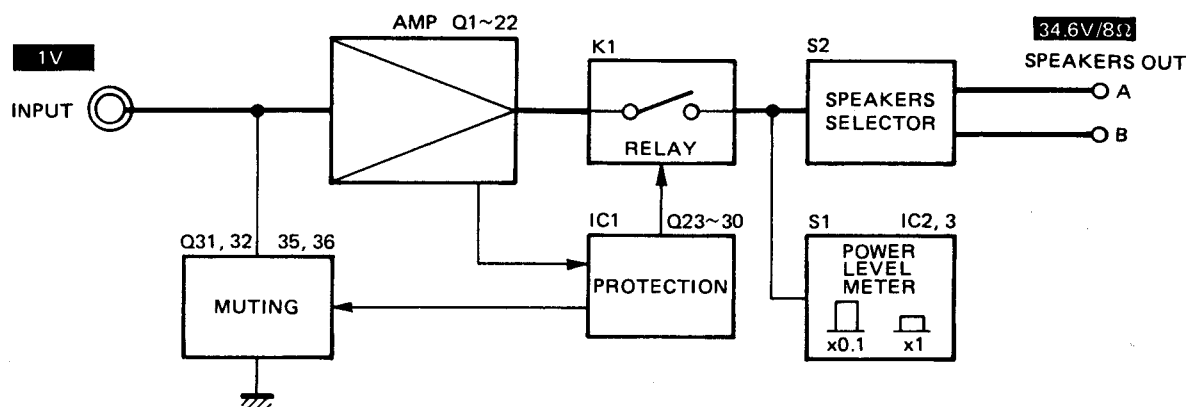


*Refer to parts list on page 15.

KM-208

BLOCK DIAGRAM/CIRCUIT DESCRIPTION

BLOCK LEVEL DIAGRAM



CIRCUIT DESCRIPTION

Description of Components

POWER AMPLIFIER UNIT (X07-2430-XX, X07-2460-XX)

Components	Application/Function	Operation/Condition/Compatibility
Q1 ~ 4	Initial stage differential amplifier	Low noise.
Q5 ~ 8	2nd stage differential amplifier	
Q9, 10	3rd stage amplifier	Class A cascade current amplifier.
Q11, 12	3rd stage amplifier	Class A cascade voltage amplifier.
Q13, 14	Bias temperature compensation	
Q15 ~ 18	Class B driver	
Q19 ~ 22	Power amplifier	
Q23 ~ 30	Current protection	
Q31, 32	Input muting	
Q33	Driver for realy driver IC	Current protection.
Q34	Constant voltage control	
Q35, 36	Muting driver	
Q37	AVR	For meter driver.
IC1	Relay driver IC	
IC2, 3	Meter driver	

ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L) CP2 (R)	VOLUME: 0	VR1 (L) VR2 (R)	9~18mV	(a)

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINS L'ALIGNEMENT	ALIGNER POUR	FIG.
1	COURANT DE POLARISATION	—	Connecter un voltmètre de CC sur CP1 (G) CP2 (D)	VOLUME: 0	VR1 (G) VR2 (D)	9~18mV	(a)

ABGLEICH

NR.	GEGENSTAND	EINGANGS- EINSTELLUNG	AUSGANGS- EINSTELLUNG	VORSTARKER EINSTELLUNG	ABGLEICH- PUNKTE	ABGLEICHEN FÜR	ABB.
1	LEERLAUFSTROM		Einen Gleichspannungs- messer über CP1 (L) CP2 (R) anschießen.	VOLUME: 0	VR1 (L) VR2 (R)	9~18mV	(a)

KM-208

VOLTAGE CHECK TABLE

X07-2430-XX

X07-2460-XX

	B	C	E
Q1 — 4	—	17.7V	— 18V
Q5, 6	17.7V	80.3V	17V
Q7, 8	17.7V	81V	17V
Q9, 10	80.3V	77.8V	81V
Q11, 12	77.2V	1.2V	77.8V
Q13, 14	—	1.2V	— 1.2V
Q15, 16	—	81V	0.6V
Q17, 18	—	— 81V	— 0.6V
Q19, 20	—	81V	—
Q21, 22	—	— 81V	—
Q23, 24	—	—	0V
Q27, 28	—	—	1.2V
Q29, 30	—	—	— 1.2V
Q33	81V	—	81V
Q34	24V	34V	23.4V
Q35	0V	—	0V
Q36	23V	Relay ON : — 12V Relay OFF : 23V	23V
Q37	—	—	14.7V

IC1

4	2.7V
5	0V
6	0.8V
7	2.2V
8	3.2V

IC2, 3

7	14.7V
8	0V
10	14.7V

1

2

3

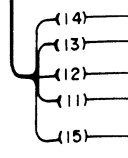
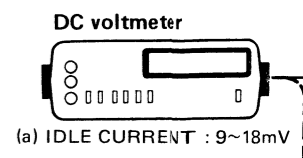
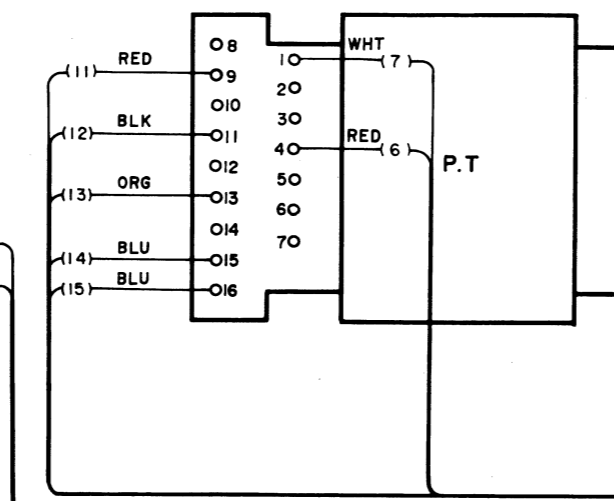
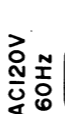
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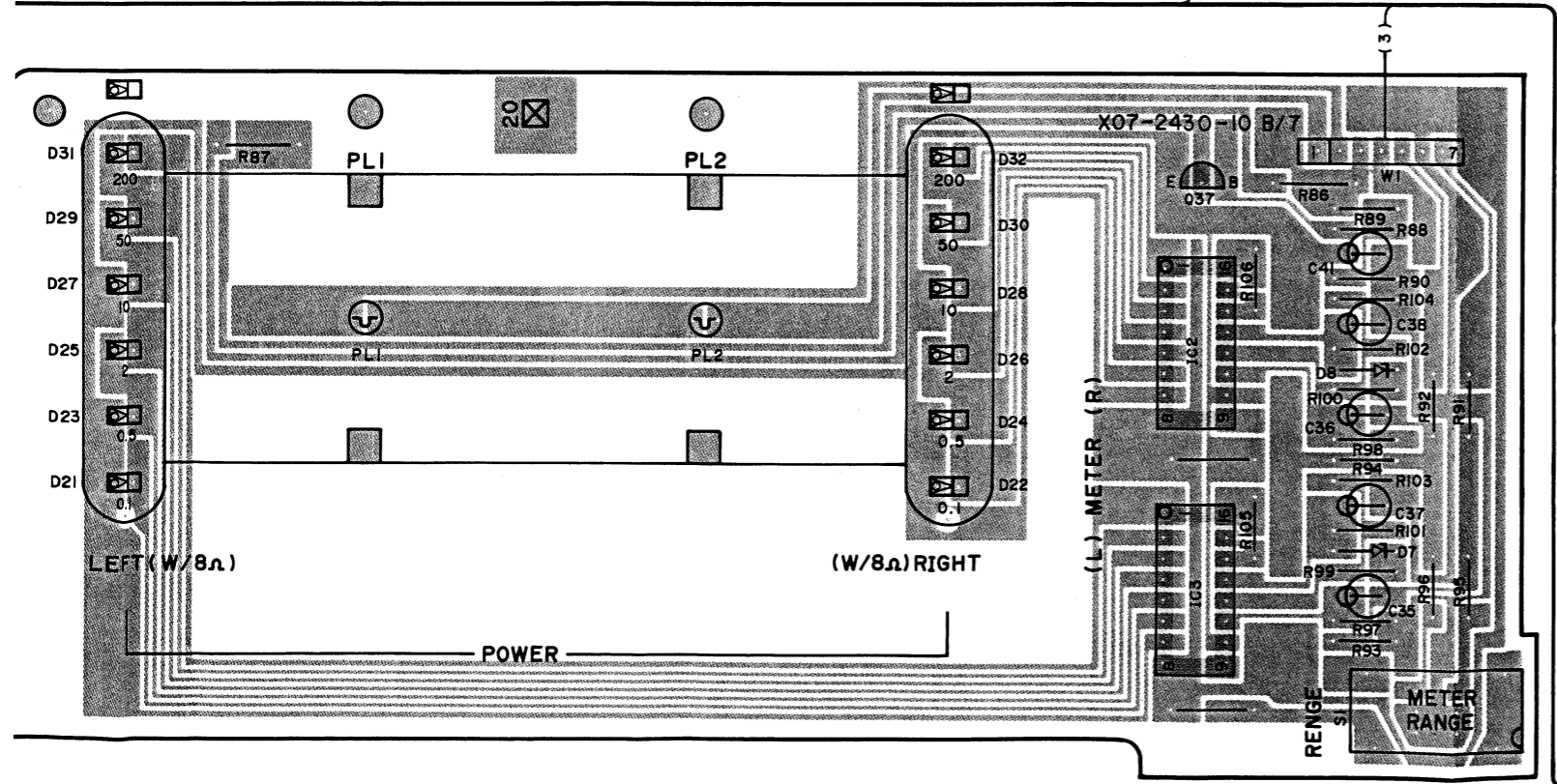
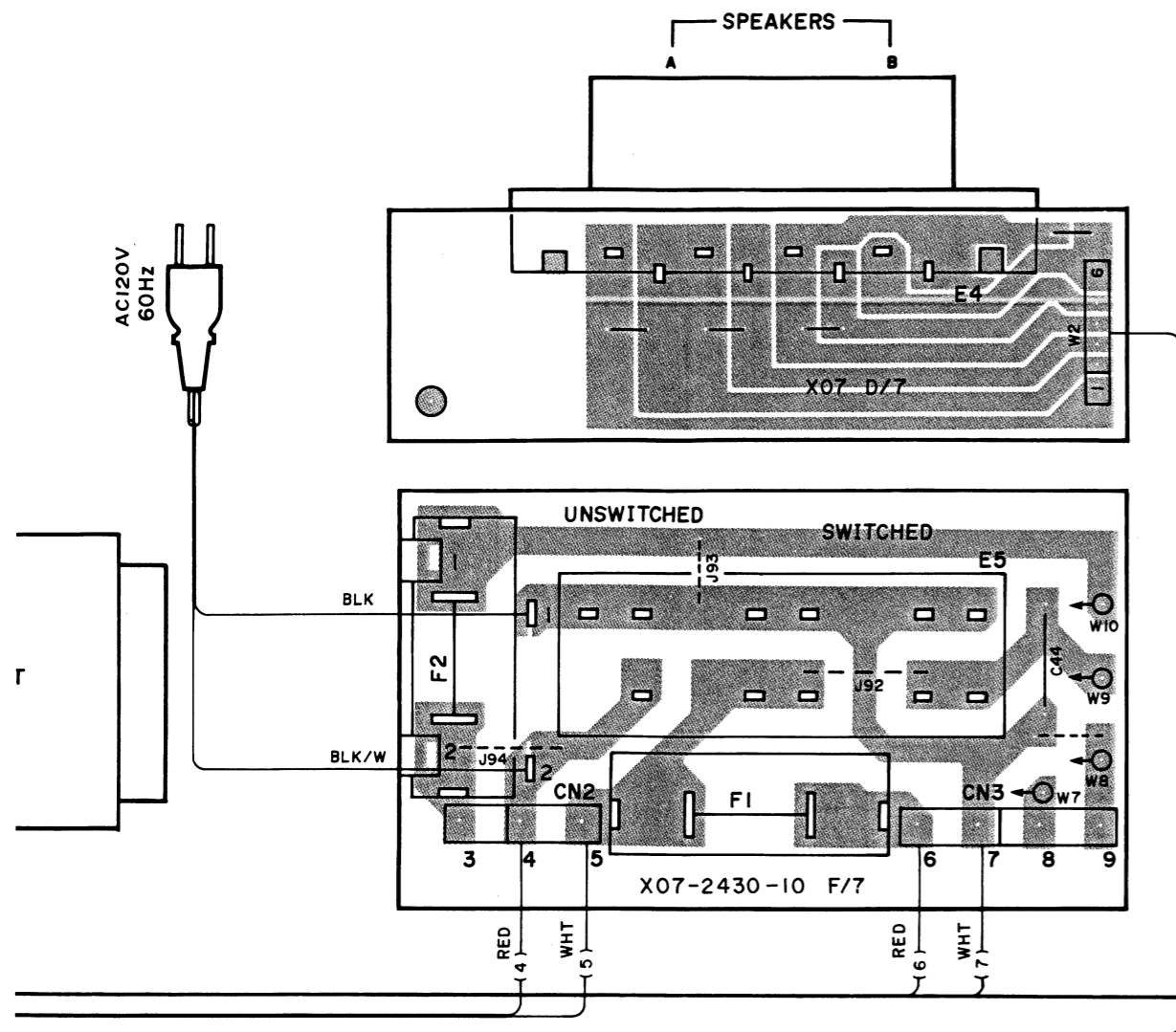
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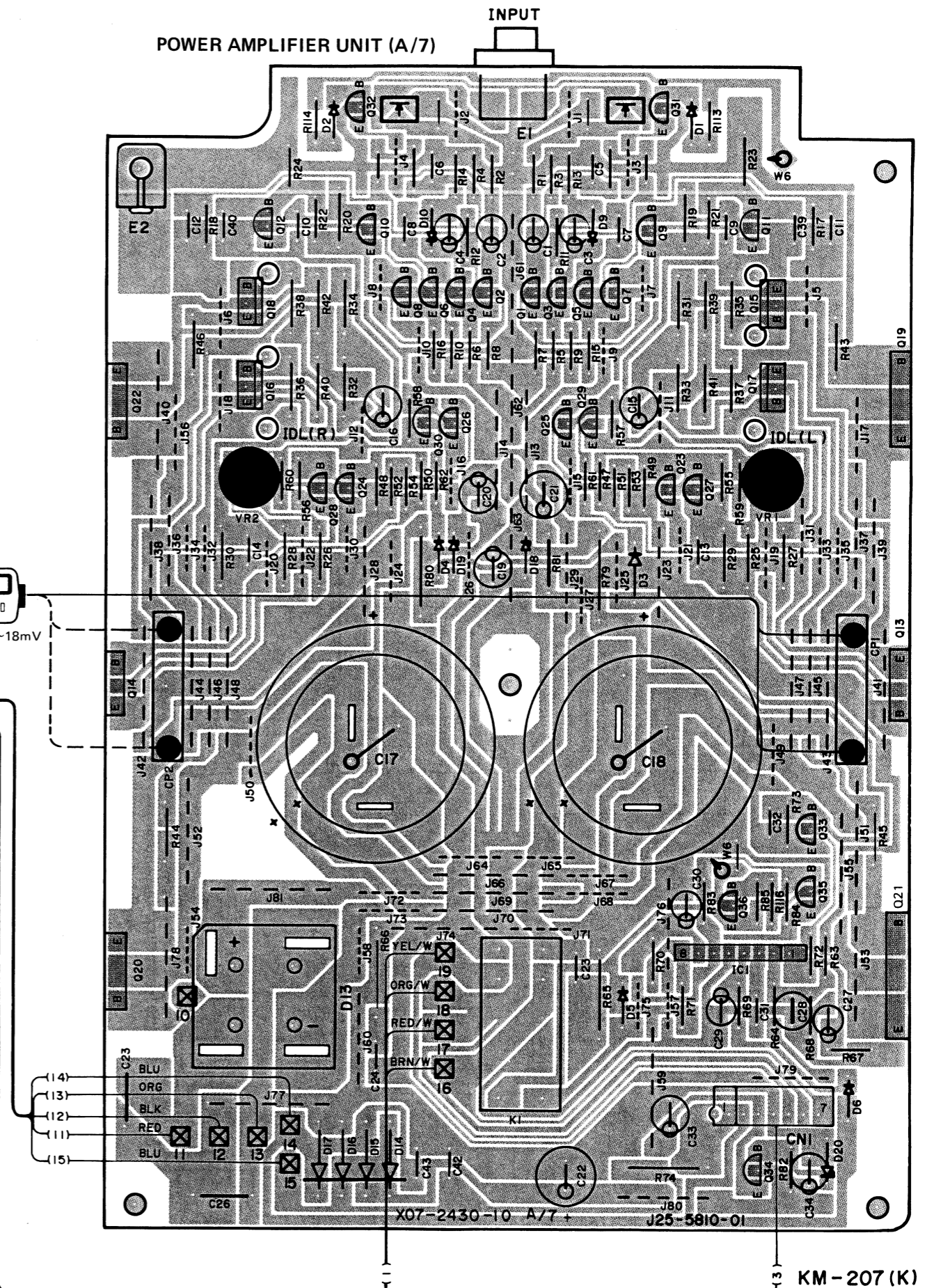
7

POWER

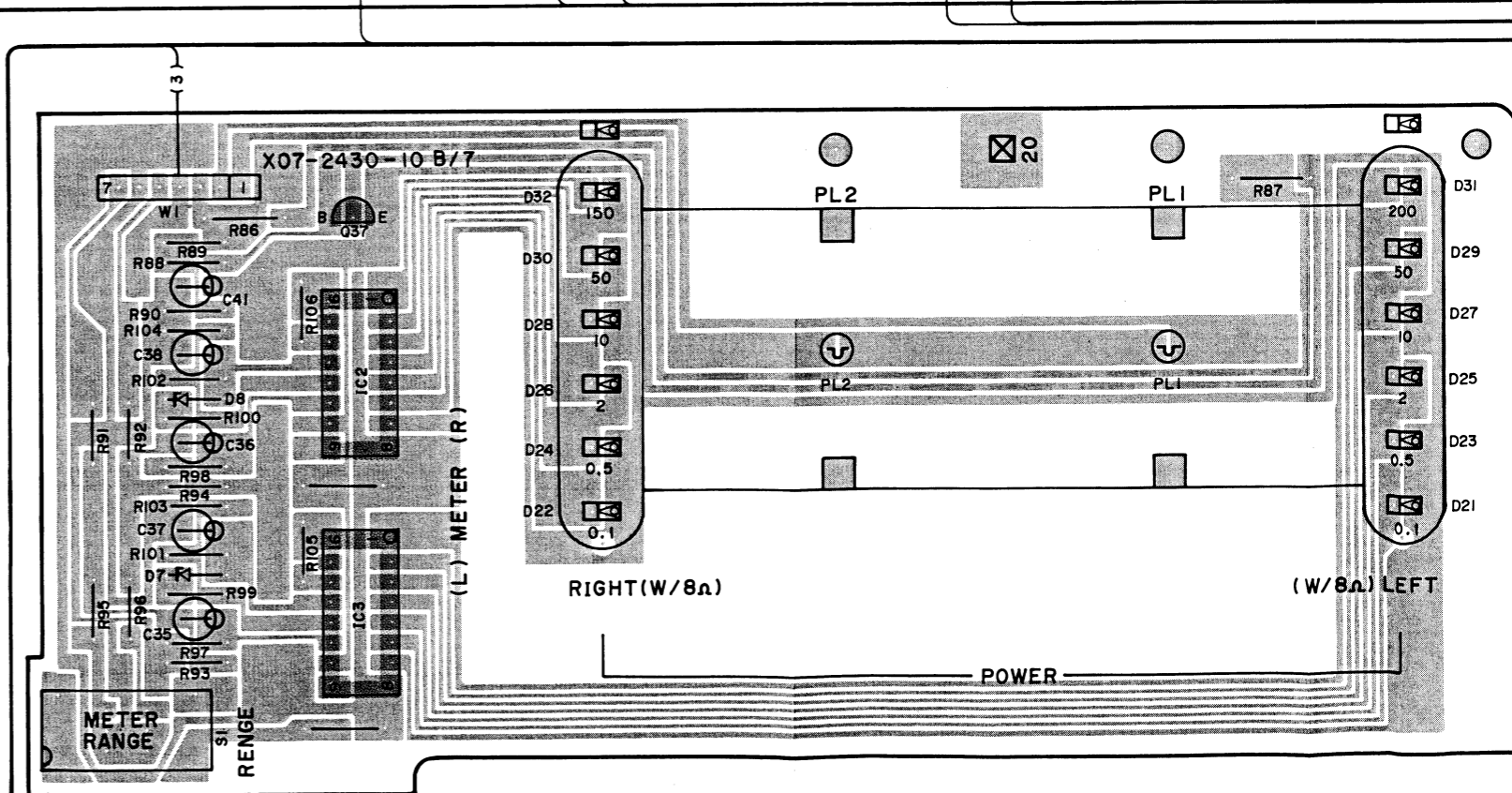
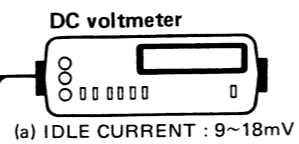
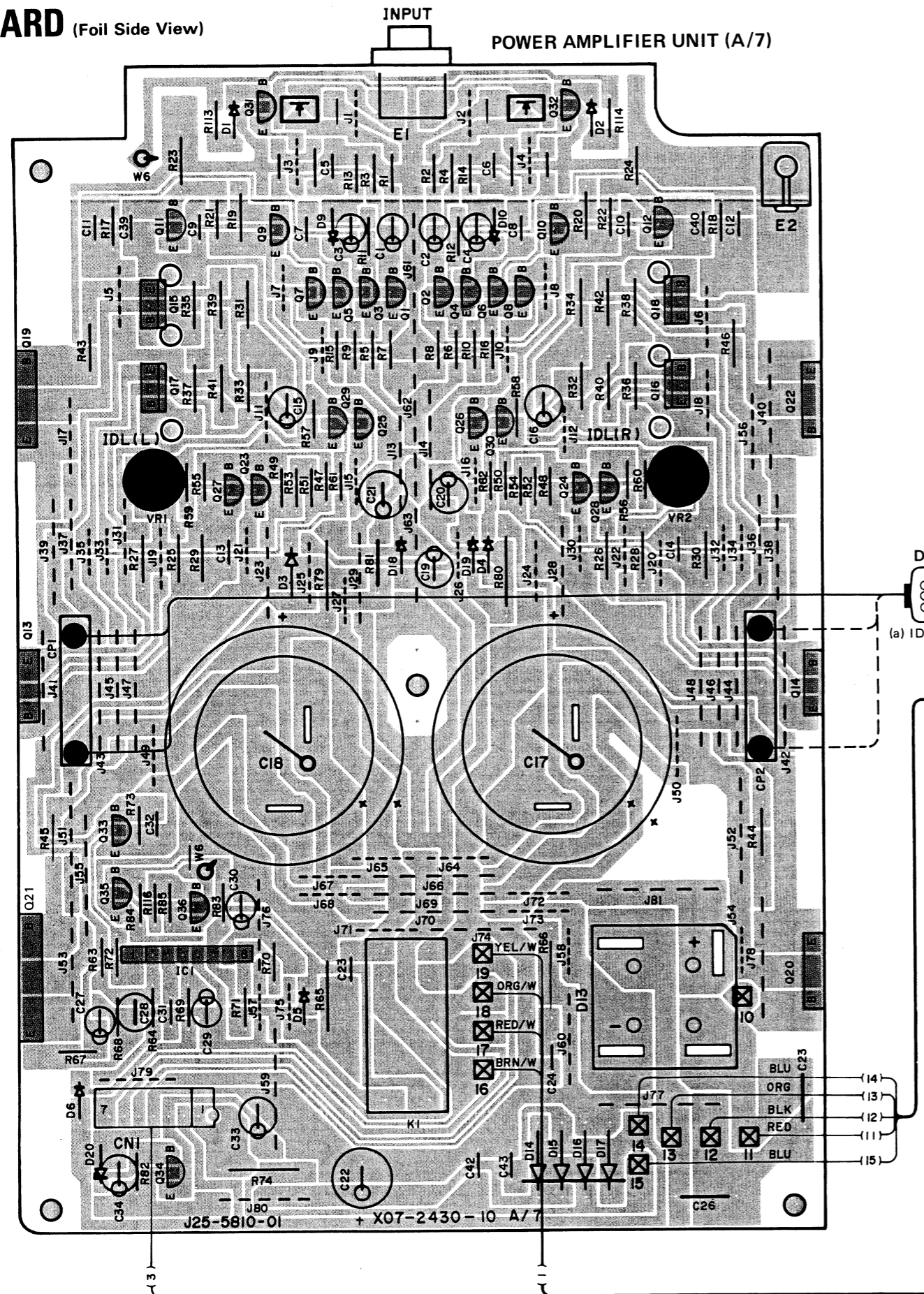


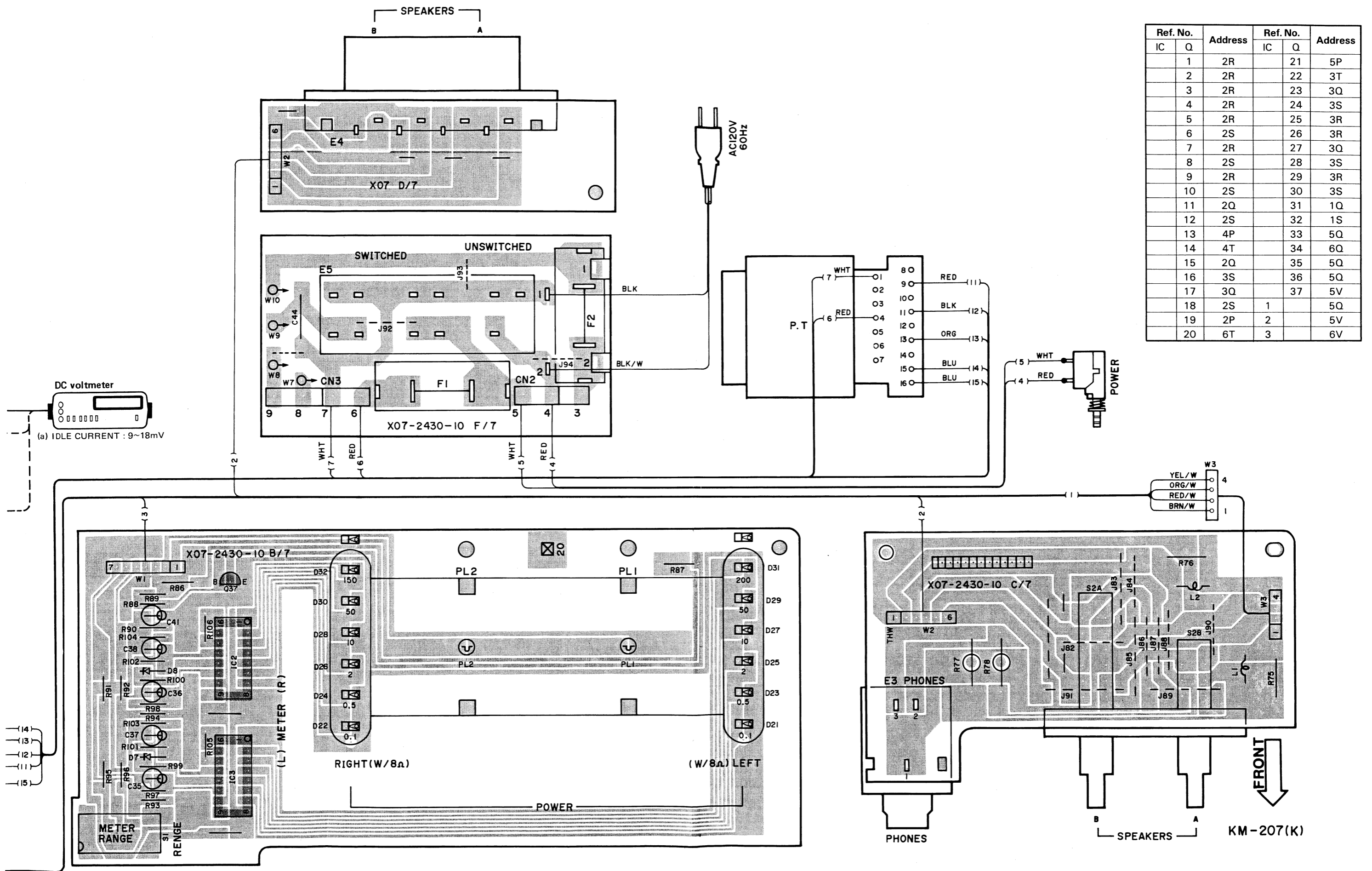


DC voltmeter
(a) IDLE CURRENT : 9~18mV



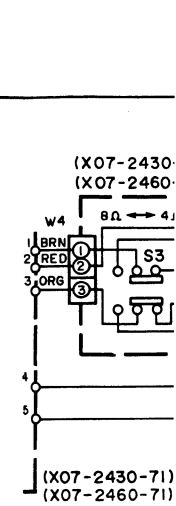
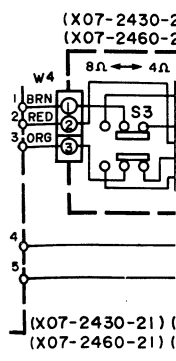
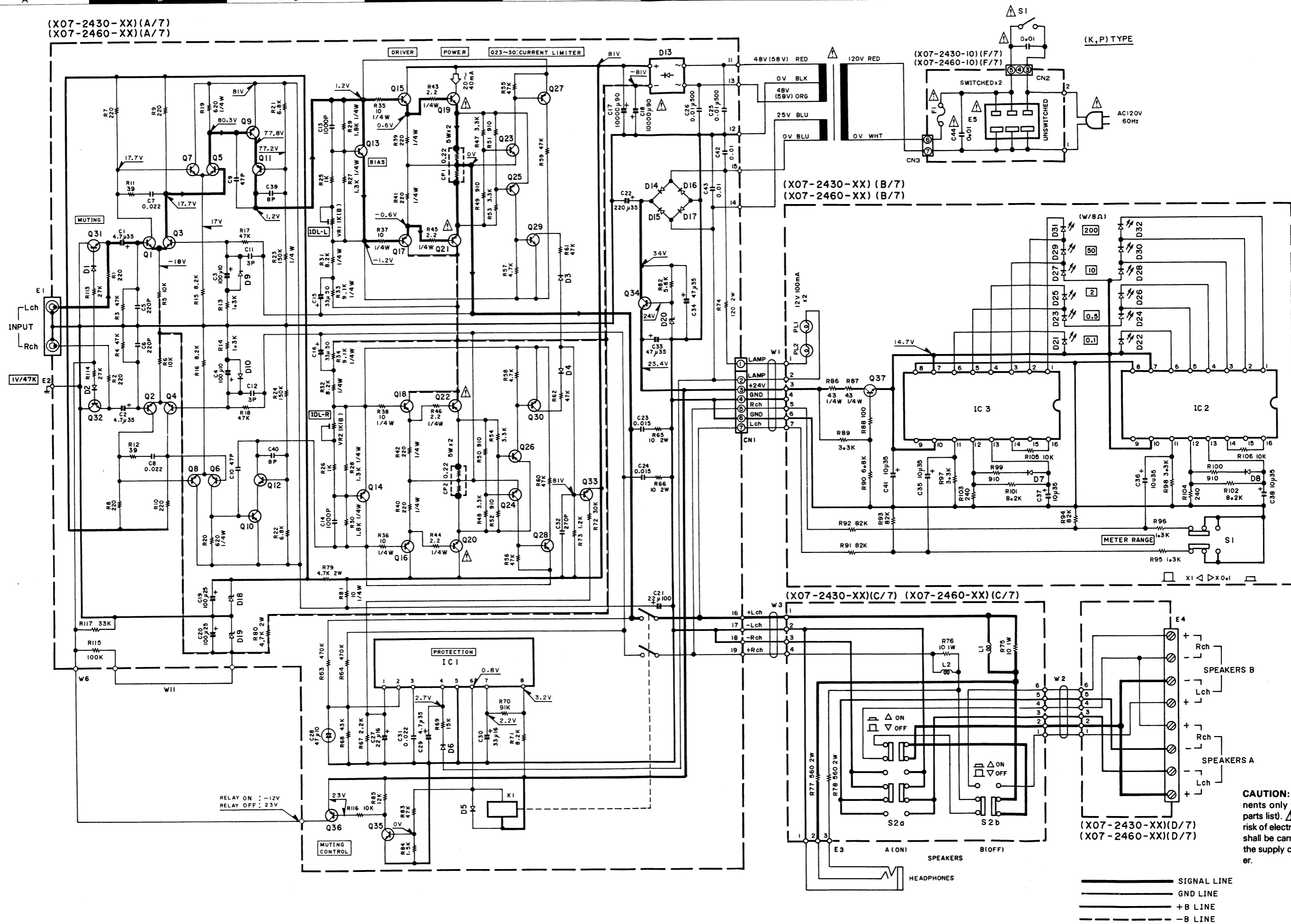
PC BOARD (Foil Side View)





(X07-2430-XX)(A/7)
(X07-2460-XX)(A/7)

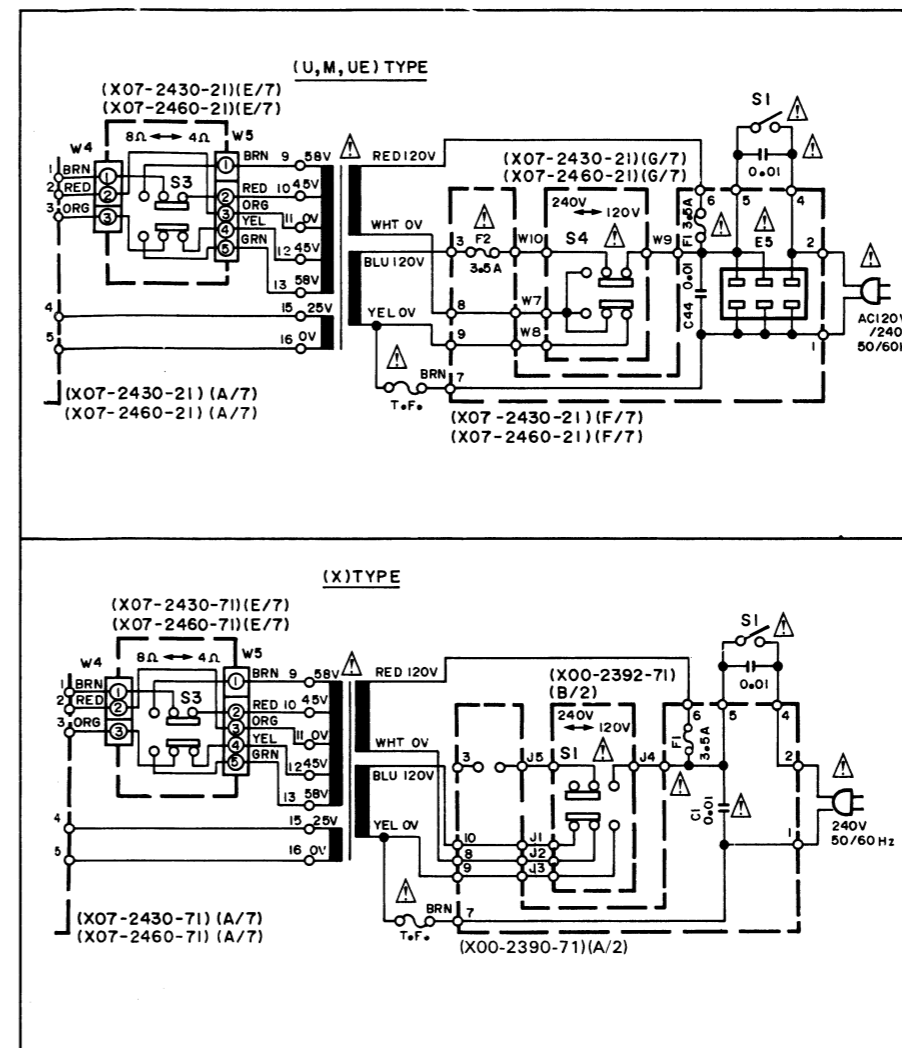
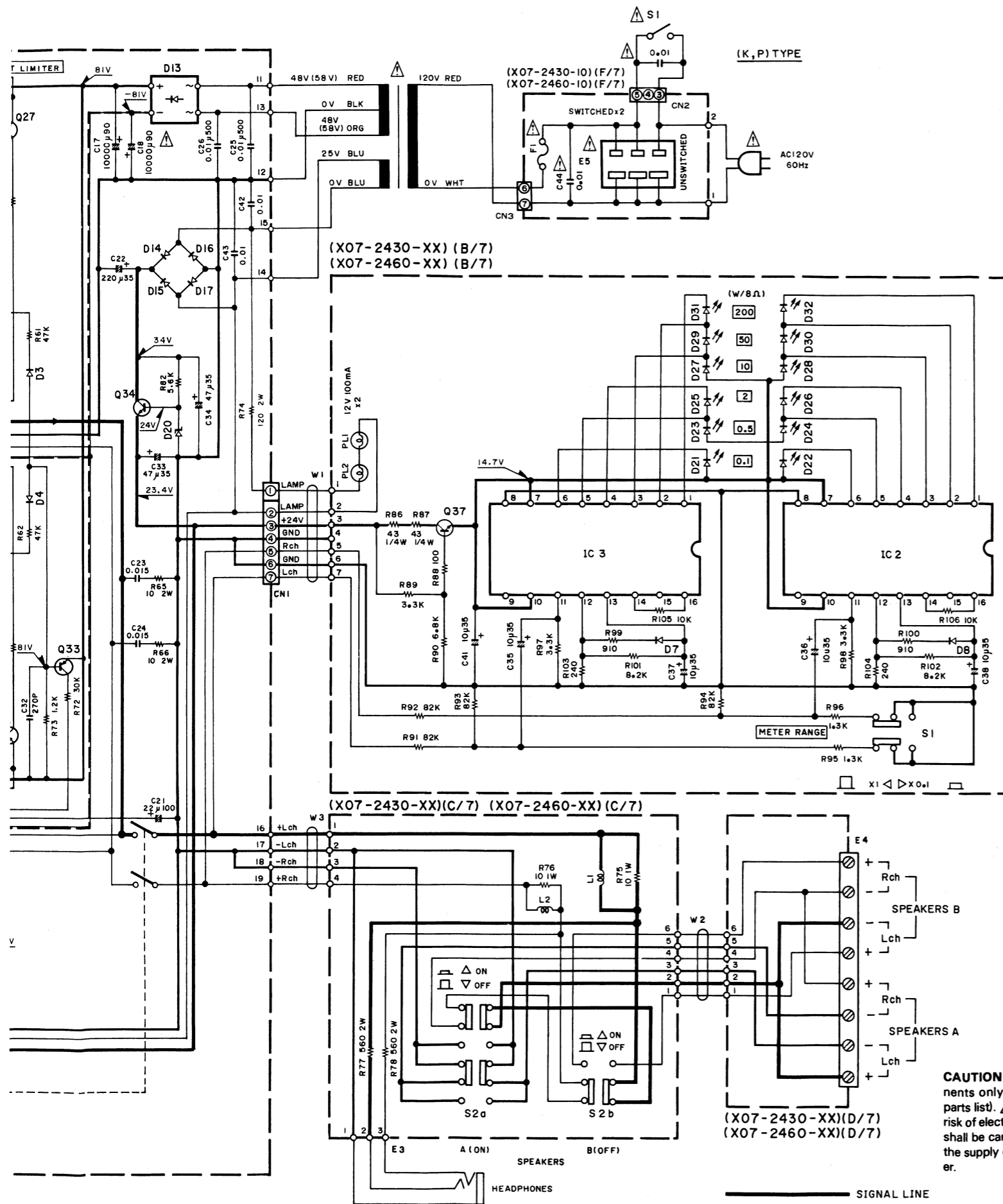
(K,P) TYPE



DESTINATION	Ref.
0-10	U
0-21	U
0-71	U

CAUTION: For continued safety, repairs only with manufacturer's rec parts list. ⚡ Indicates safety critical risk of electric shock, leakage current shall be carried out (exposed parts at the supply circuit) before the appliance is used.

— SIGNAL LINE
— GND LINE
— +B LINE
— -B LINE



(X07-2430-XX) JAPAN MADE
(X07-2460-XX) SINGAPORE MADE

DESTINATION	Ref. No.	E/7	F/7	G/7	J92	J93,94
0-10	K	NO	YES	NO	YES	YES
0-21	U,M,UE	YES	YES	YES	YES	NO
0-71	X	YES	NO	NO	NO	NO

IC1	: μPC1237HA
IC2,3	: AN6882
Q1~4	: 2SC1845(F,E)
Q5~8,23,24,35	: 2SC945(A)(Q,P) or 2SC1740S(Q,R)
Q9,10,25~28,36	: 2SA733(A)(Q,P) or 2SA933S(Q,R)
Q11,12	: 2SA1124(Q,R)
Q13,14	: 2SC3419(Y)
Q15,16	: 2SC3944A(Q,R)
Q17,18	: 2SA1535A(Q,R)
Q19,20	: 2SC2922LB
Q21,22	: 2SA1216LB
Q29,30	: 2SC2631(Q,R,S)
Q31,32	: 2SD1302(S,T)
Q33	: 2SA992(F,E)
Q34	: 2SC2590(Q,R)
Q37	: 2SC2003(L,K)
D1,2,7~10	: 1SS133 or 1SS176
D3~6	: 1SS131 or 1SS178
D13	: 1S15VB20
D14~17	: DSM1A1 or S5566B
D18,19	: RD18ES(B) or HZS18N(B)
D20	: RD24ES(B) or HZS24N(B)
D21~32	: B30-0431-05

2SA1124
2SA733(A)
2SA992
2SC1845
2SC2003
2SC2631
2SC945(A)
2SD1302

2SC2590

2SA1216LB

2SC3419

2SA1535A
2SC3944A

2SC2922LB

AN6882

UPC1237HA

DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

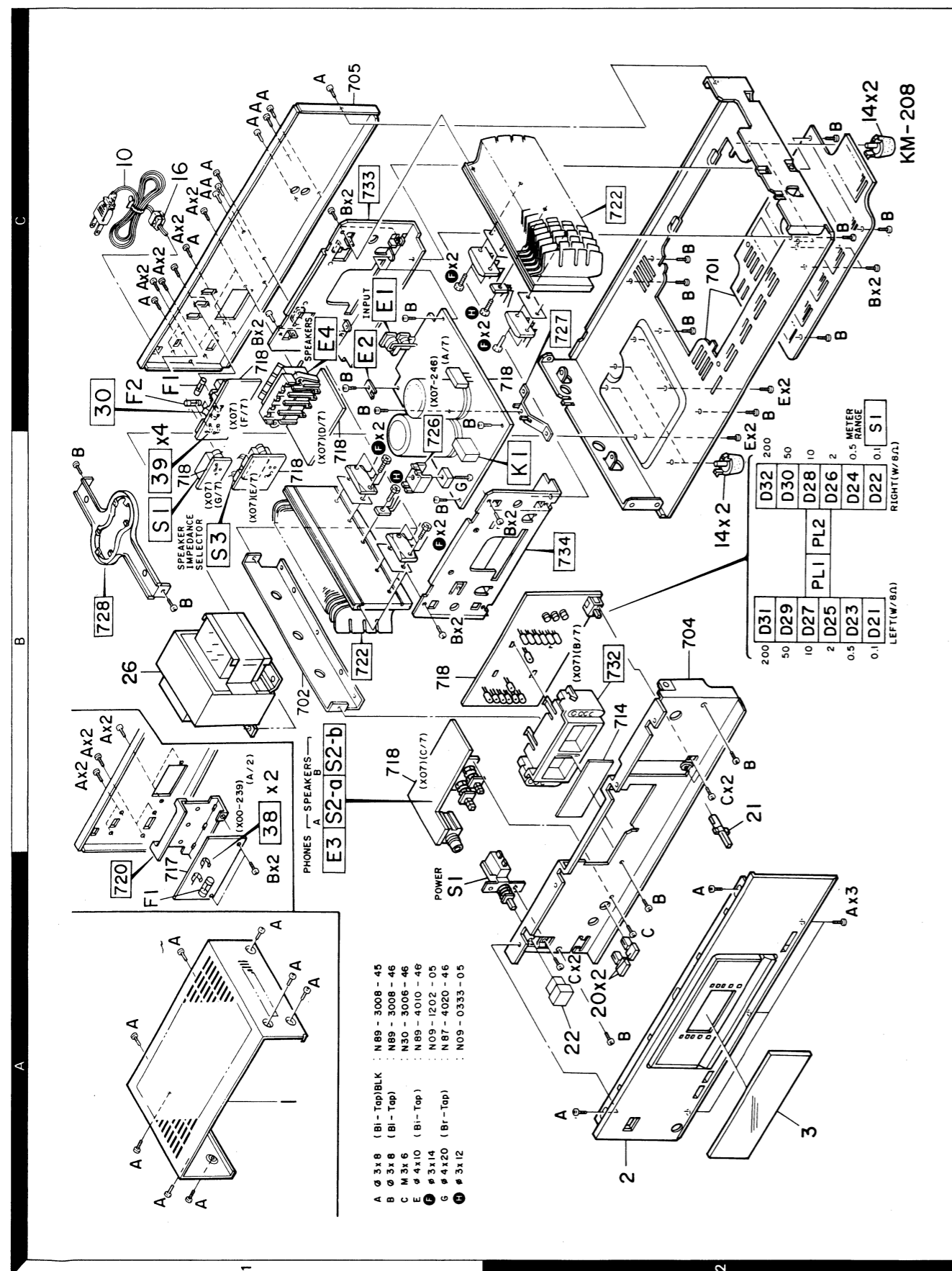
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

— SIGNAL LINE
— GND LINE
— +B LINE
— -B LINE

Y08-3750-10

KM-208
KENWOOD

EXPLODED VIEW



PARTS LIST

* Law Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KM-208						
1	1A	*	A01-1741-01	METALLIC CABINET		
2	2A	*	A20-5754-02	PANEL ASSY		
3	2A	*	B10-1003-03	FRONT GLASS	K	
			B46-0092-03	WARRANTY CARD	UE	
			B46-0094-03	WARRANTY CARD	UE	
			B46-0095-03	WARRANTY CARD	X	
			B46-0096-13	WARRANTY CARD		
			B46-0121-03	WARRANTY CARD	P	
			B50-9623-00	INSTRUCTION MANUAL		
		*	B50-9624-00	INSTRUCTION MANUAL	PMX	
		*	B50-9625-00	INSTRUCTION MANUAL	M	
			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
10	1C		E30-0812-05	AC POWER CORD	UEM	
10	1C		E30-1341-05	AC POWER CORD	X	
10	1C		E30-2209-05	AC POWER CORD	KP	
F1	1C		F05-3522-05	FUSE (SEMKO) (250V T3.5A)	X	
F1	1C		F05-7026-05	FUSE (UL) (250V 7A)	KP	
F1, F2	1C		F05-3523-05	FUSE (250V 3.5A)	UEM	
		*	H01-8511-04	ITEM CARTON CASE		
		*	H10-3847-02	POLYSTYRENE FOAMED FIXTURE		
		*	H10-3848-02	POLYSTYRENE FOAMED FIXTURE		
			H25-0223-04	PROTECTION BAG (750X350X0.03)		
			H25-0232-04	PROTECTION BAG (235X350X0.03)		
14	2B, 2C		J02-1013-05	FOOT		
16	1C		J42-0083-05	POWER CORD BUSHING		
			J61-0307-05	WIRE BAND		
20	2A		K27-0742-14	KNOB (BUTTON) SPEAKER A, B		
21	2B	*	K27-1966-04	KNOB (BUTTON) METER RANGE		
22	2A	*	K27-1965-04	KNOB (BUTTON) POWER		
26	1B		L01-7901-05	POWER TRANSFORMER	KP	
26	1B		L01-7905-05	POWER TRANSFORMER	UEMX	
C	2A, 2B		N30-3006-46	PAN HEAD MACHINE SCREW		
S1	1A		S40-1094-05	PUSH SWITCH (POWER)		
POWER SUPPLY UNIT (X00-2392-72: X)						
C1			C91-0647-05	CERAMIC 0.01UF P	X	
38	1B		J13-0054-05	FUSE CLIP	X	
			J61-0307-05	WIRE BAND	X	
S1			S31-2126-05	SLIDE SWITCH (POWER TYPE)	X	
POWER AMPLIFIER UNIT (X07-2460-10: K, P, 0-21: U, UE, M, 0-71: X)						
D21 -32	2B		B30-0431-05	LED(LN21CPH)		
PL1, 2	2B		B30-1140-05	LAMP (12V, 0.1A)		
C1, 2			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C3, 4			CE04LW1A101M	ELECTRO 100UF 10WV		
C5, 6			CC45FSL1H221J	CERAMIC 220PF J		
C7, 8			CF92FV1H223J	MF 0.022UF J		
C9, 10			CC45FSL1H470J	CERAMIC 47PF J		

E: Scandinavia & Europe K: USA P: Canada

U: PX(Far East, Hawaii) T: England M: Other Areas

UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

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3	2A	*	B10-1003-03	FRONT GLASS	K	
-			B46-0092-03	WARRANTY CARD	UUE	
-			B46-0094-03	WARRANTY CARD	UUE	
-			B46-0095-03	WARRANTY CARD	X	
-			B46-0096-13	WARRANTY CARD		
-			B46-0121-03	WARRANTY CARD	P	
-			B50-9623-00	INSTRUCTION MANUAL		
-		*	B50-9624-00	INSTRUCTION MANUAL	PMX	
-		*	B50-9625-00	INSTRUCTION MANUAL	M	
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
△ 10	1C		E30-0812-05	AC POWER CORD	UUEM	
△ 10	1C		E30-1341-05	AC POWER CORD	X	
△ 10	1C		E30-2209-05	AC POWER CORD	KP	
△ F1	1C		F05-3522-05	FUSE (SEMKO) (250V T3.5A)	X	
△ F1	1C		F05-7026-05	FUSE (UL) (250V 7A)	KP	
△ F1 ,F2	1C		F05-3523-05	FUSE (250V 3.5A)	UUEM	
-		*	H01-8511-04	ITEM CARTON CASE		
-		*	H10-3847-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-3848-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0223-04	PROTECTION BAG (750X350XD.03)		
-			H25-0232-04	PROTECTION BAG (235X350XD.03)		
△ 14	2B,2C		J02-1013-05	FOOT		
△ 16	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
20	2A		K27-0742-14	KNOB (BUTTON) SPEAKER A,B		
21	2B	*	K27-1966-04	KNOB (BUTTON) METER RANGE		
22	2A	*	K27-1965-04	KNOB (BUTTON) POWER		
26	1B		L01-7901-05	POWER TRANSFORMER	KP	
26	1B		L01-7905-05	POWER TRANSFORMER	UUEMX	
C	2A,2B		N30-3006-46	PAN HEAD MACHINE SCREW		
S1	1A		S40-1094-05	PUSH SWITCH (POWER)		
POWER SUPPLY UNIT (X00-2392-72: X)						
△ C1			C91-0647-05	CERAMIC 0.01UF P	X	
38	1B		J13-0054-05	FUSE CLIP	X	
-			J61-0307-05	WIRE BAND	X	
△ S1			S31-2126-05	SLIDE SWITCH (POWER TYPE)	X	
POWER AMPLIFIER UNIT (X07-2460-10: K, P, 0-21: U, UE, M, 0-71: X)						
D21 -32	2B		B30-0431-05	LED(LN21CPH)		
PL1 ,2	2B		B30-1140-05	LAMP (12V,0.1A)		
C1 ,2			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C3 ,4			CE04LW1A101M	ELECTRO 100UF 10WV		
C5 ,6			CC45FSL1H221J	CERAMIC 220PF J		
C7 ,8			CF92FV1H223J	MF 0.022UF J		
C9 ,10			CC45FSL1H470J	CERAMIC 47PF J		

E: Scandinavia & Europe K: USA P: Canada
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 UE: AAFES(Europe) X: Australia

△ indicates safety critical components.

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C11 ,12			CC45FSL1H030C	CERAMIC 3.0PF C		
C13 ,14			CF92FV1H102J	MF 1000PF J		
C15 ,16		*	CE04LW1H330M	ELECTRO 33UF 50WV		
C17 ,18			C90-1394-05	ELECTRO 10000UF 90WV		
C19 ,20			CE04LW1E101M	ELECTRO 100UF 25WV		
C21		*	CE04LW2A220M	ELECTRO 22UF 100WV		
C22		*	CE04LW1V221M	ELECTRO 220UF 35WV		
C23 ,24			CF92FV1H153J	MF 0.015UF J		
C25 ,26			CK45FE2H103P	CERAMIC 0.010UF P		
C27			CE04LW1C220M	ELECTRO 22UF 16WV		
C28			C90-1334-05	NP-ELEC 47UF 10WV		
C29			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C30			CE04LW1C330M	ELECTRO 33UF 16WV		
C31			CF92FV1H223J	MF 0.022UF J		
C32			CC45FSL1H271J	CERAMIC 270PF J		
C33 ,34		*	CE04LW1V470M	ELECTRO 47UF 35WV		
C35 -38			CE04LW1V100M	ELECTRO 10UF 35WV		
C39 ,40			CC45FSL1H080D	CERAMIC 8.0PF D		
C41			CE04LW1V100M	ELECTRO 10UF 35WV		
C42 ,43			CK45FF1H103Z	CERAMIC 0.010UF Z		
△ C44			C91-0971-05	FILM 0.01UF 250WV	KPUUEM	
30	1C		E03-0078-05	AC OUTLET		
E1	1C		E13-0229-05	PHONE JACK (2P)	KPUUEM	
E2	1C		E23-0077-05	TERMINAL	UUEM	
E2	1C		E23-0149-05	TERMINAL		
E3	1A		E11-0162-05	PHONE JACK (3P)		
E4	1C		E20-0823-05	LOCK TERMINAL BOARD(8P)		
39	1B		J13-0041-05	FUSE CLIP	KPUUEM	
L1 ,2			L39-0085-05	PHASE-COMPENSATION COIL		
			N09-0333-05	TAPPING SCREW (3X12)		
			N09-1202-05	TAPPING SCREW (3X14)		
			N09-1777-05	SEMS (TAPTITE SCREW)		
CP1 ,2			R90-0187-05	MULTI-COMP 0.22X2 K 5W		
R19 ,20			RD14GB2E621J	FL-PROOF RD 620 J 1/4W		
R25 ,26			RD14GB2E102J	FL-PROOF RD 1.0K J 1/4W		
R27 ,28			RD14GB2E132J	FL-PROOF RD 1.3K J 1/4W		
R29 ,30			RD14GB2E182J	FL-PROOF RD 1.8K J 1/4W		
R31 ,32		*	RD14GB2E822J	FL-PROOF RD 8.2K J 1/4W		
R33 ,34			RD14GB2E912J	FL-PROOF RD 9.1K J 1/4W		
R35 -38			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
R39 -42			RD14GB2E221J	FL-PROOF RD 220 J 1/4W		
R43 -46			RD14GB2E2R2J	FL-PROOF RD 2.2 J 1/4W		
R65			RS14KB3D100J	FL-PROOF RS 10 J 2W		
R66			RS14KB3D100J	FL-PROOF RS 10 J 2W		
R74			RS14KB3D121J	FL-PROOF RS 120 J 2W		
R75 ,76			RS14KB3A100J	FL-PROOF RS 10 J 1W		
R77 ,78			RS14KB3D561J	FL-PROOF RS 560 J 2W		
R79 ,80		*	RS14KB3D472J	FL-PROOF RS 4.7K J 2W		
R81			RD14GB2E100J	FL-PROOF RD 10 J 1/4W		
VR1 ,2			R12-1083-05	TRIMMING POT. (1K)		
K1	2B		S51-2078-05	MAGNETIC RELAY		

E: Scandinavia & Europe K: USA P: Canada
 U: PX(Far East, Hawaii) T: England M: Other Areas
 UE: AAFES(Europe) X: Australia

△ indicates safety critical components.

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕 向	Re- marks 備考
S1 S2 S3 S4	1B 1B 2B		S40-2351-05 S42-2163-05 S31-2127-05 S31-2126-05	PUSH SWITCH MULTIPLE PUSH SWITCH SLIDE SWITCH (4Ω→8Ω) SLIDE SWITCH (POWER TYPE)	UUEMX UUEM	
D1 ,2 D1 ,2 D3 -6 D3 -6 D7 -10			1SS133 1SS176 1SS131 1SS178 1SS133	DIODE DIODE DIODE DIODE DIODE		
D7 -10 D13 D14 -17 D18 ,19 D18 ,19		*	1SS176 S15VB20 S5566B HZS18N(B) RD18ES(B)	DIODE DIODE DIODE ZENER DIODE ZENER DIODE		
D20 D20 IC1 IC2 ,3 Q1 -4			HZS24N(B) RD24ES(B) UPC1237HA AN6882 2SC1845(F,E)	ZENER DIODE ZENER DIODE IC (POWER AMP) IC (7PT LED LEVEL METER DRIVER) TRANSISTOR		
Q5 -8 Q9 ,10 Q11 ,12 Q13 ,14 Q15 ,16			2SC945(A) (Q,P) 2SA733(A) (Q,P) 2SA1124(Q,R) 2SC3419(Y) 2SC3944A(Q,R)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q17 ,18 Q19 ,20 Q21 ,22 Q23 ,24 Q25 -28			2SA1535A(Q,R) 2SC2922LB 2SA1216LB 2SC945(A) (Q,P) 2SA733(A) (Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q29 ,30 Q31 ,32 Q33 Q34 Q35			2SC2631(Q,R,S) 2SD1302(S,T) 2SA992(F,E) 2SC2590(Q,R) 2SC945(A) (Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q36 Q37			2SA733(A) (Q,P) 2SC2003(L,K)	TRANSISTOR TRANSISTOR		

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KM-208

SPECIFICATIONS

Rated Power Output

150 watts per channel minimum RMS, both channels driven, at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.03% total harmonic distortion.

Both channels driven

(8 ohms, 1 kHz).....155 W + 155 W

Music Power

(8 ohms)310 W + 310 W

Total Harmonic Distortion

20 Hz to 20,000 Hz0.015% at 1/2 rated power
into 8 ohms

1 kHz0.002% at 1/2 rated power
into 8 ohms

Inter Modulation Distortion

(60 Hz:7 kHz = 4:1).....0.002% at rated power into
8 ohms

Frequency Response5 Hz to 200 kHz, +0 dB,
-3 dB

Power Bandwidth

(0.2 % T.H.D., 8 ohms)10 Hz to 50 kHz

Signal-to-Noise Ratio (IHF-A)120 dB (MAIN IN)

Damping FactorMore than 35 at 50 Hz

General

Power Consumption5 A (USA and Canada)
350 W (Others)

AC OutletsSwitched 2, Unswitched 1
(Except some area)

DimensionsW 420 mm (16-9/16")
H 123 mm (4-13/16")
D 269 mm (10-9/16")

Weight (Net)8.5 kg (18.7 lb)

Note :

We follow a policy of continuous advancements in developments.
For this reason specifications may be changed without notice.

Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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